



CALIFORNIA

Agricultural Bulletin

EDD Employment
Development
Department
State of California

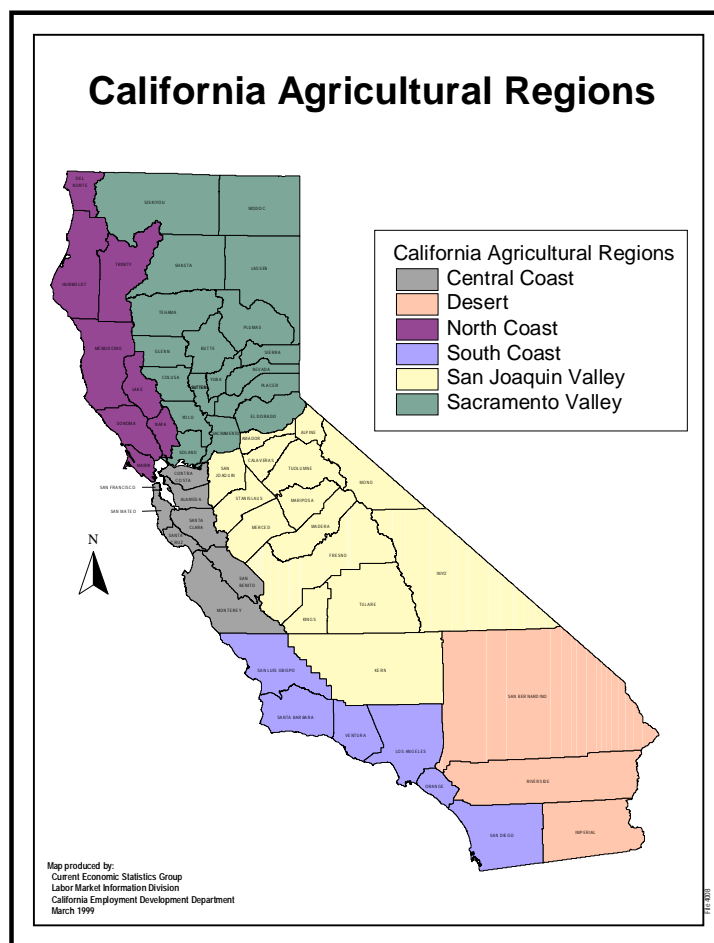
March 1999
(Internet Version)

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Agricultural Overview

This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

LMID
Labor Market Information Division
"Your Information Source"

Introduction

The March 1999 issue is the Third California Agricultural Bulletin produced since December 1996. Prior to January 1997, the U.S. Department of Agriculture (USDA) and the Employment Development Department (EDD) conducted separate, overlapping agricultural labor surveys.

Beginning with January 1997 data, EDD in cooperation with the USDA and through a grant from the U.S. Department of Labor has instituted new methods to estimate current agricultural employment, as well as earnings and hours worked based on sampling according to a probabilistic model of selection. EDD will continue to benchmark agricultural employment data yearly. As a result of changes in sampling and estimating procedures, farm employment data prior to January 1997 may not be strictly comparable to current estimates.

Summary

Agricultural employment in California for March 1999 increased 34,500 from the previous month, a gain of 12.0%. The change from February 1998 to March 1998 was an increase of 25,200. Over the month, Production/Crops registered an increase of 34,300 (+23.9%) and Production/Livestock increased 6,500 (+38.9%). Agricultural Services registered a decrease of 6,300 (-4.9%). Total California Agricultural Employment for March 1999 decreased 1,100 from the March 1998 level. A gain of 5.5% was registered in Agricultural Production while a decline of 8.7% was seen in Agricultural Services.

The San Joaquin Valley Region registered an increase of 3,400 from February to March. Agricultural Production increased by 7.4% while Agricultural Services declined 2.6% from the previous month.

Beneficial weather conditions permitted increased field activity in preparation for summer crops. Seedbed preparations were in full swing in the Sacramento and San Joaquin Valley Regions. Workers in the San Joaquin Valley Region were actively planting safflower, corn, tomatoes, and new alfalfa. Cotton was planted in the Desert Region and safflower and corn were planted in the Sacramento Valley Region. Established fields in all regions were sprayed for weeds and insects. Workers in vineyards and orchards irrigated and applied fungicide.

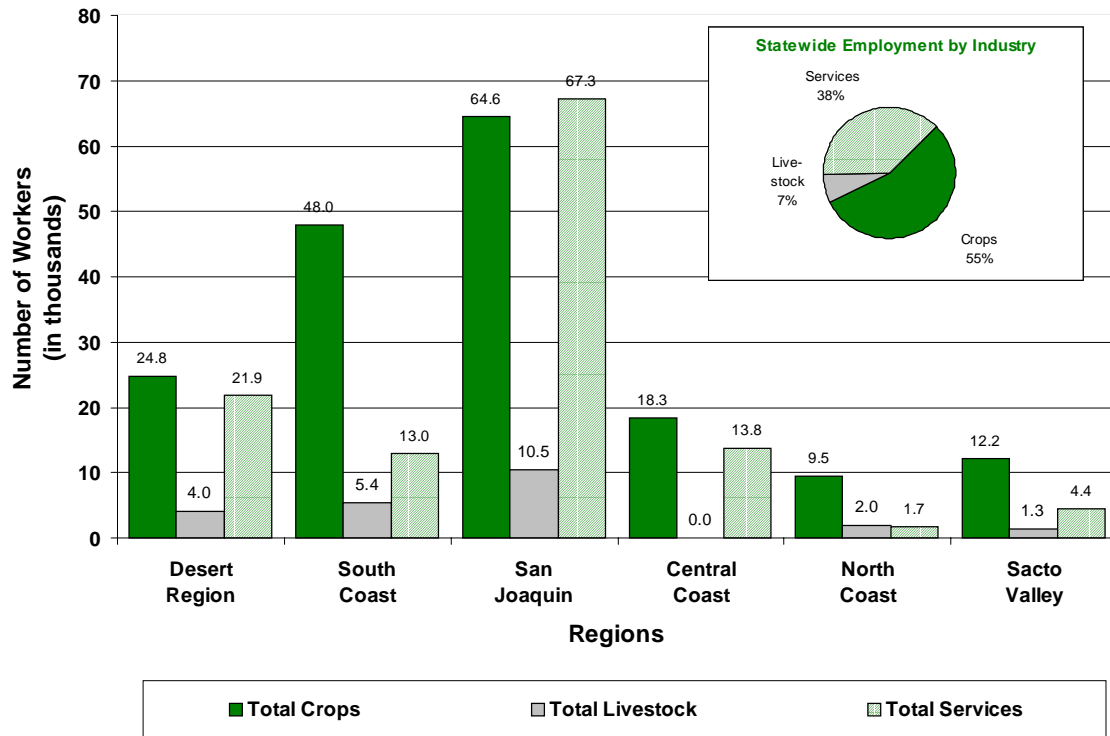
Work crews were also busy harvesting cauliflower, broccoli, cabbage, spinach, carrots, potatoes, green onions, turnips, mustard greens, and asparagus.

Citrus growers in the San Joaquin Valley Region continued to salvage fruit that was usable after the December 1998 freeze. Most of the salvaged fruit was processed for juice. Citrus fruit, unaffected by the freeze, was picked in southern California.

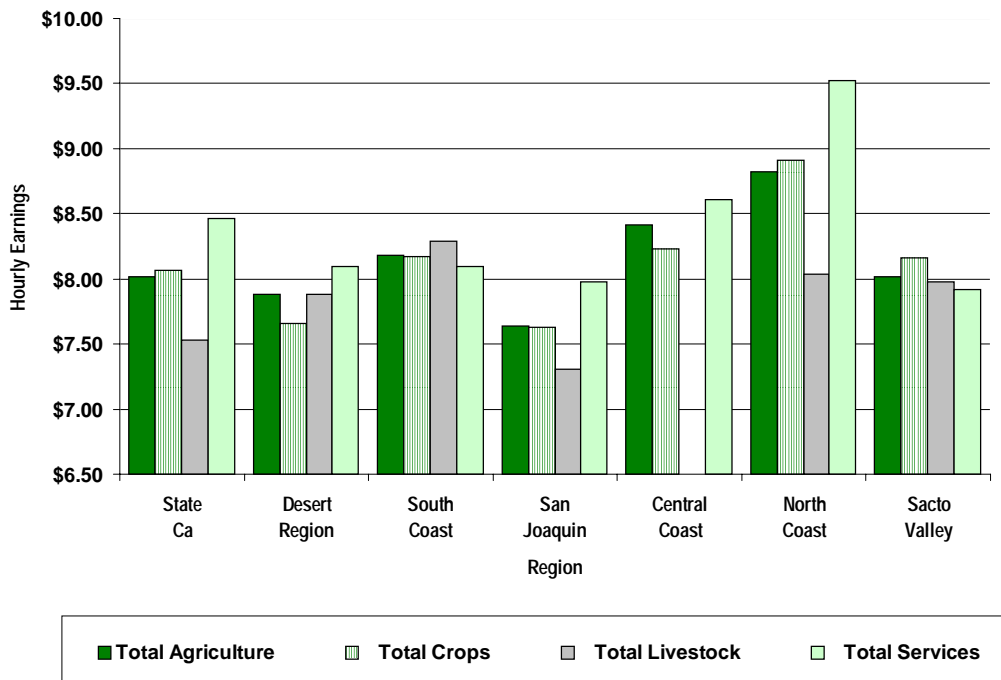
As of March 9, 1999 Merced, Madera, Fresno, Monterey, Kings, Tulare, and Kern counties had been identified by the federal government as counties that suffered damage from the December freeze and declared them eligible for assistance. The California Employment Development Department has redirected funds for disaster relief and job services.

Agricultural Summary Charts

Wage and Salary Workers



Average Hourly Earnings



CALIFORNIA AGRICULTURAL EMPLOYMENT

Wage and Salary Workers
(In Thousands)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	323.2	288.8	324.3
Total Agricultural Production/Crops	177.9	143.6	165.2
Cash Grains	1.8	1.4	1.9
Rice	1.1	0.9	0.9
Other Cash Grains	0.7	0.5	1
Field Crops Except Grains	13.4	7.8	9.8
Cotton	4.6	1.4	5.3
Other Field Crops	8.8	6.4	4.5
Vegetables and Melons	45	34.7	24.9
Total Fruits and Tree Nuts	52.1	58.3	72.8
Berries	14.6	7.1	14.5
Grapes	17.1	26.4	31.6
Tree Nuts	6.6	5.5	7.2
Citrus Fruits	1.9	3	4.8
Deciduous Tree Fruit	7.5	7.6	8.3
Other Fruits & Nuts	4.4	8.7	6.4
Total Horticultural Specialties	29.9	20.2	37.1
Ornamental Floral & Nursery	28.8	18.9	29.9
Food Crops Grown Under Cover	1.1	1.3	7.2
General Farm Primarily Crop	35.7	21.2	18.7
Agricultural Production/Livestock	23.2	16.7	25.4
Beef Cattle Feed Lots	0.7	0.6	0.5
Beef Cattle Except Feed Lots	1.5	1.4	2.8
Dairy Farms	10.4	8.1	14.5
Chicken Eggs	1.9	2.5	2.2
Turkey & Turkey Eggs	0.6	0.7	0.8
Other Livestock	8.1	3.4	4.6
Total Agricultural Services	122.1	128.5	133.7
Soil Preparation Services	0.8	0.5	1.7
Crop Services	34.9	31.7	40.7
Plant Cultivate & Protection	4.4	3.3	6.1
Harvest Primarily by Machine	3	1.6	4.6
Preparation Services for Market	27.2	26.3	29.4
Cotton Ginning	0.3	0.5	0.6
Total Farm Labor & Management	86.4	96.3	91.3
Farm Labor Contractors	78.8	91.2	83
Farm Management Services	7.6	5.1	8.3

Average Hourly Earnings
(In dollars per hour)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	8.02	7.81	7.77
Total Agricultural Production/Crops	8.06	7.64	7.46
Cash Grains	8.28	7.21	7.36
Rice	8.28	6.86	7.29
Other Cash Grains	8.28	7.56	7.43
Field Crops Except Grains	8.13	7.69	7.20
Cotton	8.18	7.77	7.02
Other Field Crops	8.08	7.60	7.38
Vegetables and Melons	8.35	8.37	7.88
Total Fruits and Tree Nuts	7.69	7.50	7.23
Berries	6.51	7.06	6.67
Grapes	8.15	7.55	7.49
Tree Nuts	7.85	7.61	7.72
Citrus Fruits	8.03	8.36	7.53
Deciduous Tree Fruit	7.63	6.85	6.97
Other Fruits & Nuts	7.99	7.57	7.01
Total Horticultural Specialties	8.11	7.81	7.89
Ornamental Floral & Nursery	8.25	8.08	7.82
Food Crops Grown Under Cover	7.98	7.54	7.96
General Farm Primarily Crop	7.81	7.28	7.17
Agricultural Production/Livestock	7.53	7.38	7.52
Beef Cattle Feed Lots	7.72	7.54	7.47
Beef Cattle Except Feed Lots	7.81	7.21	7.78
Dairy Farms	8.28	8.04	8.10
Chicken Eggs	6.68	6.38	6.61
Turkey & Turkey Eggs	6.26	7.09	7.04
Other Livestock	8.45	8.02	8.08
Total Agricultural Services	8.46	8.42	8.34
Soil Preparation Services	8.92	8.82	8.83
Crop Services	8.82	8.62	8.47
Plant Cultivate & Protection	8.85	9.00	8.66
Harvest Primarily by Machine	9.37	8.60	8.20
Preparation Services for Market	7.76	7.62	7.69
Cotton Ginning	9.29	9.25	9.34
Total Farm Labor & Management	7.66	7.82	7.74
Farm Labor Contractors	7.53	7.32	7.16
Farm Management Services	7.79	8.32	8.32

CENTRAL COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers
(In Thousands)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	32.1	28.1	40.5
Total Agricultural Products/Crops	18.3	16.8	23.6
Cash Grains	0.1	0.1	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.1	0.1
Field Crops Except Grains	1.4	0.9	0.2
Cotton	0.0	0.0	0.0
Other Field Crops	1.4	0.9	0.2
Vegetables and Melons	5.9	4.1	8.1
Total Fruits and Tree Nuts	4.1	5.0	5.2
Berries	3.7	1.6	3.4
Grapes	0.0	0.0	1.2
Tree Nuts	0.0	0.1	0.2
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.3	0.2	0.4
Other Fruits & Nuts	0.1	3.1	0.0
Total Horticultural Specialties	4.6	3.6	8.5
Ornamental Floral & Nursery	4.6	3.6	6.4
Food Crops Grown Under Cover	0.0	0.0	2.1
General Farm Primarily Crop	2.2	3.1	1.5
Agricultural Production/Livestock	0.0	0.1	0.8
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.3
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.1	0.1
Other Livestock	0.0	0.0	0.3
Total Agricultural Services	13.8	11.2	16.1
Soil Preparation Services	0.0	0.0	0.8
Crop Services	5.5	4.8	5.9
Plant Cultivate & Protection	0.0	0.0	0.6
Harvest Primarily by Machine	1.5	0.5	0.2
Preparation Services for Market	4.0	4.3	5.1
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	8.3	6.4	9.4
Farm Labor Contractors	8.3	6.4	8.3
Farm Management Services	0.0	0.0	1.1

na = not available

Average Hourly Earnings
(In dollars per hour)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	8.42	7.76	8.08
Total Agricultural Products/Crops	8.23	7.88	7.83
Cash Grains	8.89	8.08	na
Rice	na	na	na
Other Cash Grains	8.89	8.08	8.06
Field Crops Except Grains	7.84	7.32	7.17
Cotton	na	na	na
Other Field Crops	7.84	7.32	7.17
Vegetables and Melons	8.90	9.28	8.51
Total Fruits and Tree Nuts	8.21	7.36	7.39
Berries	6.61	7.54	7.04
Grapes	na	na	7.24
Tree Nuts	na	7.53	7.62
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.59	6.30	7.67
Other Fruits & Nuts	9.43	8.08	na
Total Horticultural Specialties	8.11	7.84	8.19
Ornamental Floral & Nursery	8.11	7.84	7.89
Food Crops Grown Under Cover	na	na	8.49
General Farm Primarily Crop	7.42	7.39	7.24
Agricultural Production/Livestock	na	6.99	7.73
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	7.77
Dairy Farms	na	na	8.00
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	6.99	6.95
Other Livestock	na	na	8.18
Total Agricultural Services	8.61	8.40	8.68
Soil Preparation Services	na	na	9.23
Crop Services	9.17	9.00	8.91
Plant Cultivate & Protection	na	na	8.70
Harvest Primarily by Machine	9.64	9.27	9.30
Preparation Services for Market	8.70	8.72	8.72
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.05	7.80	7.91
Farm Labor Contractors	8.05	7.80	7.18
Farm Management Services	na	na	8.63

DESERT AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	50.7	32.6	42.9
Total Agricultural Production/Crops	24.8	11.5	15.1
Cash Grains	0.0	0.0	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.1
Field Crops Except Grains	0.6	0.9	1.5
Cotton	0.0	0.0	0.0
Other Field Crops	0.6	0.9	1.5
Vegetables and Melons	6.4	5.0	3.5
Total Fruits and Tree Nuts	1.2	0.7	6.8
Berries	0.0	0.0	0.1
Grapes	0.7	0.4	4.9
Tree Nuts	0.3	0.0	0.1
Citrus Fruits	0.0	0.0	0.5
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	0.2	0.3	1.1
Total Horticultural Specialties	1.5	1.3	2.9
Ornamental Floral & Nursery	1.3	1.3	1.0
Food Crops Grown Under Cover	0.2	0.0	1.9
General Farm Primarily Crop	15.1	3.6	0.3
Agricultural Production/Livestock	4.0	6.0	5.7
Beef Cattle Feed Lots	0.2	0.3	0.3
Beef Cattle Except Feed Lots	0.4	0.5	0.5
Dairy Farms	1.9	2.6	3.0
Chicken Eggs	0.7	1.3	1.2
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.8	1.3	0.7
Total Agricultural Services	21.9	15.1	22.1
Soil Preparation Services	0.3	0.4	0.2
Crop Services	4.9	3.8	7.1
Plant Cultivate & Protection	0.6	0.2	0.7
Harvest Primarily by Machine	0.1	0.0	2.1
Preparation Services for Market	4.2	3.6	4.3
Cotton Ginning			
Total Farm Labor & Management	16.7	10.9	14.8
Farm Labor Contractors	15.4	10.8	13.8
Farm Management Services	1.3	0.1	1.0

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	7.88	7.80	7.68
Total Agricultural Production/Crops	7.65	7.63	7.32
Cash Grains	na	na	6.80
Rice	na	na	na
Other Cash Grains	na	na	6.80
Field Crops Except Grains	8.37	7.67	7.30
Cotton	na	na	na
Other Field Crops	8.37	7.67	7.30
Vegetables and Melons	6.98	8.87	7.85
Total Fruits and Tree Nuts	7.85	7.45	7.06
Berries	na	na	6.00
Grapes	7.19	7.19	7.47
Tree Nuts	7.73	na	8.27
Citrus Fruits	na	na	7.19
Deciduous Tree Fruit	na	na	6.35
Other Fruits & Nuts	8.64	7.71	7.06
Total Horticultural Specialties	8.37	7.55	7.81
Ornamental Floral & Nursery	8.73	7.55	7.49
Food Crops Grown Under Cover	8.00	na	8.12
General Farm Primarily Crop	6.70	6.59	7.11
Agricultural Production/Livestock	7.88	7.52	7.67
Beef Cattle Feed Lots	6.73	7.32	7.36
Beef Cattle Except Feed Lots	6.92	6.71	7.39
Dairy Farms	9.18	9.00	8.88
Chicken Eggs	7.15	6.52	6.78
Turkey & Turkey Eggs	na	na	na
Other Livestock	9.42	8.03	7.94
Total Agricultural Services	8.10	8.25	8.06
Soil Preparation Services	8.66	9.64	9.12
Crop Services	8.53	7.79	7.62
Plant Cultivate & Protection	8.88	8.66	8.64
Harvest Primarily by Machine	9.75	na	7.32
Preparation Services for Market	6.95	6.91	6.91
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.10	7.33	7.44
Farm Labor Contractors	7.30	6.81	6.96
Farm Management Services	6.90	7.84	7.92

NORTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers
(In Thousands)

Average Hourly Earnings
(In dollars per hour)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	13.2	12.7	15.0
Total Agricultural Production/Crops	9.5	10.4	12.1
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.0
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.0
Vegetables and Melons	5.6	5.3	0.2
Total Fruits and Tree Nuts	2.8	4.0	8.0
Berries	0.0	0.0	0.0
Grapes	2.6	2.9	6.8
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.2	1.1	0.9
Other Fruits & Nuts	0.0	0.0	0.2
Total Horticultural Specialties	0.9	1.1	3.7
Ornamental Floral & Nursery	0.9	1.1	1.7
Food Crops Grown Under Cover	0.0	0.0	2.0
General Farm Primarily Crop	0.2	0.0	0.2
Agricultural Production/Livestock	2.0	1.4	1.5
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.3	0.1	0.2
Dairy Farms	0.4	0.7	0.9
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.1	0.1
Other Livestock	1.3	0.5	0.3
Total Agricultural Services	1.7	0.9	1.4
Soil Preparation Services	0.1	0.0	0.0
Crop Services	0.0	0.1	0.1
Plant Cultivate & Protection	0.0	0.0	0.0
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	0.0	0.1	0.1
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	1.6	0.8	1.3
Farm Labor Contractors	0.5	0.3	0.3
Farm Management Services	1.1	0.5	1.0

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	8.83	7.74	7.63
Total Agricultural Production/Crops	8.92	8.09	7.60
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	na	na	na
Cotton	na	na	na
Other Field Crops	na	na	na
Vegetables and Melons	9.89	8.50	8.03
Total Fruits and Tree Nuts	8.18	7.65	7.32
Berries	na	na	na
Grapes	8.55	8.34	8.32
Tree Nuts	na	na	7.45
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.81	6.95	6.82
Other Fruits & Nuts	na	na	6.70
Total Horticultural Specialties	8.04	8.12	8.02
Ornamental Floral & Nursery	8.04	8.12	7.98
Food Crops Grown Under Cover	na	na	8.05
General Farm Primarily Crop	9.55	na	7.04
Agricultural Production/Livestock	8.03	7.16	7.40
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.86	7.34	7.84
Dairy Farms	7.26	6.95	6.93
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	7.12	7.12
Other Livestock	7.98	7.23	7.71
Total Agricultural Services	9.53	7.99	7.88
Soil Preparation Services	9.85	na	na
Crop Services	na	6.91	7.46
Plant Cultivate & Protection	na	na	na
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	na	6.91	7.46
Cotton Ginning	na	na	na
Total Farm Labor & Management	9.21	9.06	8.30
Farm Labor Contractors	8.72	8.90	7.71
Farm Management Services	9.69	9.22	8.88

na = not available

SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers
(In Thousands)

Average Hourly Earnings
(In dollars per hour)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	66.4	44.8	58.4
Total Agricultural Production/Crops	48.0	31.2	43.4
Cash Grains	0.1	0.1	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.1	0.1
Field Crops Except Grains	0.6	0.7	0.3
Cotton	0.0	0.0	0.1
Other Field Crops	0.6	0.7	0.2
Vegetables and Melons	8.7	4.6	6.6
Total Fruits and Tree Nuts	14.8	11.8	16.5
Berries	10.9	5.5	10.9
Grapes	0.8	1.3	2.0
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	1.0	1.2	1.9
Deciduous Tree Fruit	0.1	0.1	0.1
Other Fruits & Nuts	2.0	3.7	1.5
Total Horticultural Specialties	18.2	10.4	16.6
Ornamental Floral & Nursery	17.8	9.7	15.7
Food Crops Grown Under Cover	0.4	0.7	0.9
General Farm Primarily Crop	5.6	3.6	3.3
Agricultural Production/Livestock	5.4	1.5	1.8
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.3	0.0	0.2
Dairy Farms	0.3	0.0	0.2
Chicken Eggs	0.6	1.0	0.4
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	4.2	0.5	1.0
Total Agricultural Services	13.0	12.1	13.2
Soil Preparation Services	0.0	0.0	0.2
Crop Services	2.7	2.0	3.0
Plant Cultivate & Protection	0.1	0.0	0.5
Harvest Primarily by Machine	0.2	0.0	0.4
Preparation Services for Market	2.4	2.0	2.1
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	10.3	10.1	10.0
Farm Labor Contractors	9.2	8.7	9.0
Farm Management Services	1.1	1.4	1.0

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	8.18	7.71	7.85
Total Agricultural Production/Crops	8.17	7.90	7.49
Cash Grains	8.62	7.78	7.50
Rice	na	na	na
Other Cash Grains	8.62	7.78	7.50
Field Crops Except Grains	8.29	8.45	7.20
Cotton	na	na	6.75
Other Field Crops	8.29	8.45	7.65
Vegetables and Melons	9.18	8.39	7.76
Total Fruits and Tree Nuts	7.73	7.48	7.34
Berries	6.40	6.58	6.77
Grapes	9.42	8.06	7.46
Tree Nuts	na	na	7.75
Citrus Fruits	8.38	8.57	7.89
Deciduous Tree Fruit	6.23	6.12	6.49
Other Fruits & Nuts	8.21	8.09	7.67
Total Horticultural Specialties	8.13	8.13	7.93
Ornamental Floral & Nursery	7.69	7.95	7.51
Food Crops Grown Under Cover	8.57	8.30	8.34
General Farm Primarily Crop	7.10	7.20	7.22
Agricultural Production/Livestock	8.29	7.50	8.05
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.14	na	8.10
Dairy Farms	8.49	na	8.76
Chicken Eggs	6.46	6.27	6.60
Turkey & Turkey Eggs	na	na	na
Other Livestock	10.05	8.72	8.74
Total Agricultural Services	8.09	7.74	8.00
Soil Preparation Services	na	na	8.17
Crop Services	8.54	7.89	8.03
Plant Cultivate & Protection	8.98	na	8.41
Harvest Primarily by Machine	8.75	na	7.86
Preparation Services for Market	7.90	7.89	7.83
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.65	7.60	7.80
Farm Labor Contractors	7.45	7.42	7.55
Farm Management Services	7.84	7.77	8.04

na = not available

SAN JOAQUIN AGRICULTURAL EMPLOYMENT

Wage and Salary Workers
(In Thousands)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	142.4	139.0	147.8
Total Agricultural Production/Crops	64.6	63.1	58.0
Cash Grains	0.3	0.2	0.6
Rice	0.0	0.1	0.1
Other Cash Grains	0.3	0.2	0.5
Field Crops Except Grains	10.2	5.0	7.2
Cotton	4.6	1.4	5.2
Other Field Crops	5.6	3.6	2.0
Vegetables and Melons	15.8	13.6	5.5
Total Fruits and Tree Nuts	23.6	33.2	29.7
Berries	0.0	0.0	0.1
Grapes	13.0	21.6	15.8
Tree Nuts	3.6	3.9	4.5
Citrus Fruits	0.9	1.8	2.4
Deciduous Tree Fruit	4.3	4.5	4.2
Other Fruits & Nuts	1.8	1.4	2.7
Total Horticultural Specialties	3.7	2.6	3.7
Ornamental Floral & Nursery	3.7	2.6	3.6
Food Crops Grown Under Cover	0.5	0.6	0.1
General Farm Primarily Crop	11.0	8.5	11.3
Agricultural Production/Livestock	10.5	6.8	14.1
Beef Cattle Feed Lots	0.5	0.3	0.2
Beef Cattle Except Feed Lots	0.2	0.5	1.1
Dairy Farms	7.6	4.5	9.8
Chicken Eggs	0.6	0.2	0.6
Turkey & Turkey Eggs	0.6	0.5	0.6
Other Livestock	1.0	0.8	1.8
Total Agricultural Services	67.3	69.1	75.7
Soil Preparation Services	0.4	0.1	0.4
Crop Services	19.6	18.9	22.3
Plant Cultivate & Protection	3.2	2.6	3.8
Harvest Primarily by Machine	1.0	1.0	1.8
Preparation Services for Market	15.1	14.8	16.1
Cotton Ginning	0.3	0.5	0.6
Total Farm Labor & Management	47.3	50.1	53.0
Farm Labor Contractors	43.3	47.0	49.2
Farm Management Services	4.0	3.1	3.8

na = not available

Average Hourly Earnings
(In dollars per hour)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	7.64	7.62	7.75
Total Agricultural Production/Crops	7.63	7.40	7.26
Cash Grains	7.80	6.64	7.13
Rice	na	6.44	7.00
Other Cash Grains	7.80	6.84	7.25
Field Crops Except Grains	7.85	7.53	7.30
Cotton	8.18	7.77	7.28
Other Field Crops	7.51	7.29	7.31
Vegetables and Melons	7.18	7.32	7.33
Total Fruits and Tree Nuts	7.63	7.56	7.15
Berries	na	na	6.86
Grapes	7.43	7.04	6.93
Tree Nuts	7.94	7.91	7.50
Citrus Fruits	7.68	8.14	7.51
Deciduous Tree Fruit	8.11	7.58	7.17
Other Fruits & Nuts	6.99	7.11	6.95
Total Horticultural Specialties	7.79	7.45	7.30
Ornamental Floral & Nursery	8.20	8.13	7.83
Food Crops Grown Under Cover	7.37	6.77	6.77
General Farm Primarily Crop	7.54	7.89	7.34
Agricultural Production/Livestock	7.31	7.43	7.52
Beef Cattle Feed Lots	8.71	7.75	7.58
Beef Cattle Except Feed Lots	6.92	6.85	7.78
Dairy Farms	7.95	8.33	8.22
Chicken Eggs	6.42	6.35	6.46
Turkey & Turkey Eggs	6.26	7.15	7.06
Other Livestock	7.61	8.16	8.03
Total Agricultural Services	7.98	8.02	8.49
Soil Preparation Services	8.24	8.00	9.08
Crop Services	8.50	8.60	8.49
Plant Cultivate & Protection	8.17	9.31	8.81
Harvest Primarily by Machine	9.10	8.40	8.40
Preparation Services for Market	7.45	7.42	7.40
Cotton Ginning	9.29	9.25	9.34
Total Farm Labor & Management	7.19	7.47	7.89
Farm Labor Contractors	6.86	6.49	6.90
Farm Management Services	7.51	8.45	8.88

SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	17.9	30.9	19.7
Total Agricultural Production/Crops	12.2	9.9	13.0
Cash Grains	1.3	0.9	1.0
Rice	1.1	0.8	0.8
Other Cash Grains	0.2	0.1	0.2
Field Crops Except Grains	0.6	0.3	0.6
Cotton	0.0	0.0	0.0
Other Field Crops	0.6	0.3	0.6
Vegetables and Melons	2.6	2.1	1.0
Total Fruits and Tree Nuts	5.6	3.6	6.6
Berries	0.0	0.0	0.0
Grapes	0.0	0.2	0.9
Tree Nuts	2.7	1.5	2.2
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	2.6	1.7	2.6
Other Fruits & Nuts	0.3	0.2	0.9
Total Horticultural Specialties	0.5	0.6	1.7
Ornamental Floral & Nursery	0.5	0.6	1.5
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	1.6	2.4	2.1
Agricultural Production/Livestock	1.3	0.9	1.5
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.3	0.3	0.5
Dairy Farms	0.2	0.3	0.5
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.8	0.3	0.5
Total Agricultural Services	4.4	20.1	5.2
Soil Preparation Services	0.0	0.0	0.1
Crop Services	2.2	2.1	2.3
Plant Cultivate & Protection	0.5	0.5	0.5
Harvest Primarily by Machine	0.2	0.1	0.1
Preparation Services for Market	1.5	1.5	1.7
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	2.2	18.0	2.8
Farm Labor Contractors	2.1	18.0	2.4
Farm Management Services	0.1	0.0	0.4

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Mar 1999	Feb 1999	Mar 1998
Total Agriculture	8.02	7.67	7.79
Total Agricultural Production/Crops	8.16	7.66	7.57
Cash Grains	8.05	7.42	7.56
Rice	8.28	7.28	7.58
Other Cash Grains	7.81	7.55	7.54
Field Crops Except Grains	8.39	7.27	7.49
Cotton	na	na	na
Other Field Crops	8.39	7.27	7.49
Vegetables and Melons	7.96	7.88	7.81
Total Fruits and Tree Nuts	7.33	7.16	7.30
Berries	na	na	na
Grapes	na	7.10	7.51
Tree Nuts	7.88	7.38	7.72
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.41	7.30	7.29
Other Fruits & Nuts	6.69	6.87	6.69
Total Horticultural Specialties	8.71	8.90	8.12
Ornamental Floral & Nursery	8.71	8.90	8.24
Food Crops Grown Under Cover	na	na	8.00
General Farm Primarily Crop	8.52	7.35	7.07
Agricultural Production/Livestock	7.98	7.93	7.84
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.23	7.94	7.80
Dairy Farms	8.50	7.87	7.82
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	7.20	7.98	7.90
Total Agricultural Services	7.92	7.43	7.95
Soil Preparation Services	na	na	8.53
Crop Services	8.93	8.34	8.23
Plant Cultivate & Protection	9.37	9.04	8.74
Harvest Primarily by Machine	9.60	8.14	8.11
Preparation Services for Market	7.82	7.84	7.84
Cotton Ginning	na	na	na
Total Farm Labor & Management	6.91	6.52	7.09
Farm Labor Contractors	6.81	6.52	6.63
Farm Management Services	7.00	na	7.55

DATA NOTES

Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12th calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **March 1999 Agricultural Services employment data have been adjusted to reflect a recalculation of the survey sample results. Historical trend information was used to adjust sample data because of a low response rate. February 1999 Agricultural Services employment data were similarly adjusted.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.
- Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

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Employment Development Department
Labor Market Information Division
Publications Information Unit
7000 Franklin Blvd., Building 1100
Sacramento, CA 95823

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